Title (en)
Redundant connection between a packet switched network and a circuit switched network

Title (de)
Redundante Verbindung zwischen einem paketvermittelten Netzwerk und einem leitungsvermittelten Netzwerk

Title (fr)
Connexion redondante entre un réseau à commutation par paquets et un réseau à commutation de circuits

Publication
EP 2151961 A1 20100210 (EN)

Application
EP 09166808 A 20090730

Priority
JP 2008204244 A 20080807

Abstract (en)
A network connection apparatus includes, a pair of line interface circuits which accommodates each transmission line provided to interface with the circuit-switched network, composes an active line and a standby line of the redundant configuration, and mutually converts data used in the circuit-switched network and a packet used in the packet-switched network; and a packet processing unit which interfaces with the packet-switched network and performs a sending and receiving process of the packet between the line interface circuit and the packet-switched network. The packet processing unit transmits the packet received only from the line interface circuit of the active line to the packet-switched network, and transmits the packet received from the packet-switched network to both of the line interface circuits of the active line and the standby line. The line interface circuit acquires the packet transmitted from the packet processing unit when a destination MAC address included in the packet coincides with a first MAC address which is given to own line interface circuit or a second MAC address which is given to the other line interface circuit of pair for the redundant configuration.

IPC 8 full level
H04L 12/66 (2006.01); **G06F 15/16** (2006.01); **H04L 12/46** (2006.01); **H04L 12/64** (2006.01); **H04L 45/24** (2022.01); **H04L 45/586** (2022.01)

CPC (source: EP US)
H04L 12/6402 (2013.01 - EP US); **H04L 12/66** (2013.01 - EP US)

Citation (search report)
- [A] WO 2004084572 A1 20040930 - ERICSSON TELEFON AB L M [SE], et al
- [A] WO 0160000 A1 20010816 - CONVERGENT NETWORKS INC [US], et al
- [A] US 7177943 B1 20070213 - TEMOSHENKO LEO [US], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2151961 A1 20100210; **EP 2151961 B1 20110921**; AT E525837 T1 20111015; CA 2671642 A1 20100207; CA 2671642 C 20130903; JP 2010041568 A 20100218; JP 5115391 B2 20130109; RU 2009130254 A 20110220; RU 2419228 C2 20110520; US 2010034081 A1 20100211; US 8537661 B2 20130917

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